

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 49 (Canceled)

Claim 50 (Currently Amended): A method for preparing a formulation comprising liposomes loaded with an effective amount of lycopene ~~at least one carotenoid that is substantially immiscible in water~~, the method comprising the steps of:

- a. dissolving a first powder of liposome-forming lipids in an organic solvent to a level close to saturation;
- b. adding to the dissolved liposome-forming lipids obtained in step (a) ~~at least one dry, water immiscible carotenoid~~ lycopene ~~to obtain a mixture of lycopene and liposome-forming lipids~~ suspension, and drying the same to form a second dry powder; and
- c. rehydrating the second dry powder in an aqueous solution to yield liposomes loaded with lycopene ~~a carotenoid containing liposomal formulation~~.

Claim 51 (Previously Presented): The method of claim 50, wherein said liposome-forming lipids are phospholipids.

Claim 52 (Previously Presented): The method of claim 51, wherein said phospholipids are derived from egg yolk or soy oil.

Claim 53 (Previously Presented): The method of claim 52, wherein said liposome-forming phospholipids are selected from the group consisting of E-0100, S20, S20N, S-35, and S-45.

Claim 54 (Previously Presented): The method of claim 53, wherein said liposome-forming phospholipid is E-100 or S-45.

Claim 55 (Previously Presented): The method of claim 50, wherein the solvent is cyclohexane.

Claims 56 - 57 (Cancelled)

Claim 58 (Previously Presented): The method of Claim 50, wherein said aqueous solution is a water solution.

Claim 59 (Currently Amended): The method of Claim 50, wherein the weight ratio between said lycopene ~~carotenoid~~ and the liposome-forming lipids in the resulting liposomal formulation is in the range of between 1:1 and 1:500.

Claim 60 (Currently Amended): The method of Claim 50, wherein said ~~carotenoid~~ lycopene is entrapped in the lipid bilayer of the liposome formed.

Claim 61 (Currently Amended): A formulation comprising liposomes loaded with an amount of lycopene ~~a water~~

~~immiscible carotenoid~~, the formulation being prepared by the method of Claim 50.

Claim 62 (Previously): The formulation of Claim 61, wherein said liposomes are formed from lipids, the weight ratio between the lycopene and the liposome-forming lipids being in the range of between 1:1 and 1:500.

Claim 63 (Currently Amended): The formulation of Claim 61, wherein said liposomes consist of a lipid bilayer and said lycopene carotenoid is entrapped in said lipid bilayer.

Claim 64 (Previously Presented): The formulation of Claim 61, wherein the liposome-forming lipids are phospholipids.

Claim 65 (Previously Presented): The formulation of Claim 64, wherein said phospholipids are derived from egg yolk or from soy oil.

Claim 66 (Previously Presented): The formulation of Claim 65, wherein said lipids are selected from the group consisting of E-100, S-20, S20N, S35 and S-45.

Claim 67 (Previously Presented): The formulation of Claim 66, wherein said lipid is E-100 or S-45 or a combination of the same.

Claim 68 (Currently Amended): A pharmaceutical composition comprising a pharmaceutically or cosmetically an effective amount of a formulation according to Claim 61 and a pharmaceutically or cosmetically acceptable additive.

Claim 69 (Currently Amended): The pharmaceutical composition of Claim 68, comprising a pharmaceutically or cosmetically ~~an~~ effective amount of a formulation according to Claim 62.

Claim 70 (Currently Amended): The pharmaceutical composition of Claim 68, comprising a pharmaceutically or cosmetically ~~an~~ effective amount of a formulation according to Claim 63.

Claim 71 (Currently Amended): The pharmaceutical composition of Claim 68, comprising a pharmaceutically ~~an~~ effective amount of a formulation according to Claim 64.

Claim 72 (Currently Amended): The pharmaceutical composition of Claim 68, comprising a pharmaceutically ~~an~~ effective amount of a formulation according to Claim 65.

Claim 73 (Currently Amended): The pharmaceutical composition of Claim 68, comprising a pharmaceutically ~~an~~ effective amount of a formulation according to Claim 66.

Claim 74 (Currently Amended): The pharmaceutical composition of Claim 68, comprising a pharmaceutically ~~an~~ effective amount of a formulation according to Claim 67.

Claim 75 (Previously Presented): The composition of Claim 61, wherein the formulation further comprises a pharmaceutically acceptable or cosmetically acceptable carrier.

Claim 76 (Previously Presented): The composition of Claim 75, formulated for topical application to an individual's skin.

Claim 77 (Previously Presented): The composition of Claim 76, in the form of a cream, a lotion, hydrogel or gel preparation.

Claim 78 (Previously Presented): The composition of Claim 75, formulated for oral administration.

Claim 79 (Previously Presented): The composition of Claim 78, in the form of a capsule.

Claim 80 (Previously Presented): The composition of Claim 78, in the form of an edible wherein said formulation is in the form of a suspension.

Claim 81 (Previously Presented): The composition of Claim 68, for the treatment of damage caused by the formation of singlet oxygen.

Claim 82 (Previously Presented): A therapeutic method for the treatment or prevention of damage caused by singlet oxygen, the method comprises providing an individual in need thereof a composition according to Claim 61.

Claim 83 (Currently Amended): A kit comprising (a) a dry powder comprising a mixture of liposome-forming lipids and lycopene ~~at least one water immiscible carotenoid~~ prepared as described in Claim 50, step (b); (b) sterile aqueous solution;

and (c) instruction for use of the dry powder and the ~~aqueous solution~~ mixture of liposome-forming lipids to yield liposomes loaded with said carotenoid according to step (c) of the method of Claim 50, said instructions also prescribing the administration of the liposomes loaded with said carotenoid to an individual in need thereof.

Claim 84 (Previously Presented): The kit of Claim 83, wherein said dry powder is obtained by freeze-drying.

Claim 85 (Previously Presented): The kit of Claim 84, wherein said powder is a lyophilizate.

Claims 86 - 87 (Cancelled)

Claim 88 (Previously Presented): The kit of Claim 83, wherein said liposome-forming lipid is a phospholipid.

Claim 89 (Previously Presented): The kit of Claim 88, wherein said phospholipids are selected from the group consisting of E-100, S20, S20N, S-35 and S-45.